

1. A dental restoration, comprising:

a base structure (16) formed of a selected one of a single member and multiple members, the base structure being adapted to be placed over a prepared tooth stump;

a pre-fabricated over structure (24) which, when assembled with the base structure (16), at least partially covers the base structure (16), the over structure (24) having at least one pre-configured bite element (38) having a predetermined bite surface; and

a coupling element for coupling the base structure (16) and the over structure (24) with one another, the coupling element preferably including an interconnecting material (26) which interconnects the base structure (16) and the over structure (24).

2. A dental restoration according to claim 1, wherein the over structure (24) includes a covering element (40) that is interconnected with the bite element (38) and extends in at least partial coverage over at least one of a lingual, buccal, mesial, and distal region of the base structure (16), the covering element (40) being interconnected to the base structure (16) via the interconnecting material (26).

3. A dental restoration according to claim 1, wherein the interconnecting material (26) extends in a surface covering manner between the base structure (16) and the over structure (24) and, preferably, the interconnecting material (26) fills the interspatial area between the base structure (16) and the over structure (24).

4. A dental restoration according to claim 1, wherein the over structure (24) has an inner contour that is substantially compatibly configured with respect to an outer contour of the base structure (16) and, preferably, the inner contour of the over structure (24) and the outer contour of the base structure (16) have respective circular shapes.

5. A dental restoration according to claim 1, wherein the bite element (38) extends over the entire mastication area of the teeth of a dental patient receiving the dental restoration and the bite element (38) is, preferably, configured as a single member component.

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6. A dental restoration according to claim 2, wherein the respective teeth of a dental patient receiving the dental restoration on which the dental restoration is to be mounted have preparation borders formed by preparation of such teeth for receiving the dental restoration thereon, and the covering element (40) extends substantially to the preparation borders of such teeth and, preferably, the covering element (40) covers the medial and distal sides of such teeth.

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7. A dental restoration according to claim 1, wherein the over structure (24) partially covers the base structure (16) such that a portion of the base structure (16) is uncovered, the uncovered portion of the base structure (16) being covered by an opaque-appearing material.

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8. A dental restoration according to claim 1, wherein the over structure (24) partially covers the base structure (16) such that a portion of the base structure (16) is uncovered, the uncovered portion of the base structure (16) being covered by free lying interconnecting material (26) which is exterior of the region at which the interconnecting material (26) interconnects the base structure (16) and the over structure (24).

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9. A dental restoration according to claim 2, wherein each respective portion of the over structure (24) formed by the bite element (38) and the covering element (40) is comprised of at least one of ceramic and plastic.

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10. A dental restoration according to claim 2, wherein each of the bite element (38) and the covering element (40) is comprised of ceramic.

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11. A dental restoration according to claim 9, wherein the ceramic is a pre-prepared ceramic and, preferably, is a selected one of an aluminum oxide ceramic, a zirconium oxide ceramic, a glass ceramic, and a mixture of such ceramics.

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12. A dental restoration according to claim 1, wherein the interconnecting material (26) is comprised of ceramic.

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13. A dental restoration according to claim 9, wherein the plastic is a polymerizable plastic, preferably a light-hardenable or thermally hardenable plastic.

14. A dental restoration according to claim 1, wherein the base structure (16) is a selected one of a metal frame, a metal ceramic frame, a ceramic frame, a plastic frame, and a plastic fiberglass frame.

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15. A dental restoration according to claim 1, wherein the dental restoration is specifically configured for a pre-molar or a molar.

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16. A dental restoration according to claim 1, wherein the bite element (38) of the over structure (24) forms a tooth protuberance that simulates a tooth protuberance of a tooth and, preferably, a tooth protuberance that simulates the tooth protuberance of the respective tooth which the dental restoration is intended to simulate.

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17. A dental restoration according to claim 2, wherein the over structure (24) is configured as a single member component and the bite element (38) and the covering element (40) are comprised of the same material.

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18. A dental restoration according to claim 1, wherein at least one of the respective teeth of a dental patient receiving the dental restoration has a tooth stump and the base structure (16) is securable to the tooth stump.

19. A dental restoration according to claim 1, wherein the base structure (16) is securable to a selected one of a peg supported by a jaw of a dental patient receiving the dental restoration and an attachment element operable to be secured to neighboring tooth structure adjacent to the location at which the dental restoration is to be mounted.

20. A method for producing a dental restoration, comprising the steps of:  
providing a base structure (16) which is formed of a selected one of a single member and multiple members;  
providing an interconnecting material (26) which is not completely activated on a base structure (16);  
disposing, onto the interconnecting material (26) which has been provided on the base structure (16), an over structure (24) in a manner in which the over structure (24) at least partially covers the base structure (16), the over structure (24) having at least one pre-configured bite element (38) having a predetermined bite surface; and  
after disposing the over structure (24) onto the interconnecting material (26), completely activating the interconnecting material (26) into its completely activated condition in which it securely interconnects the base structure (16) and the over structure (24) to one another, wherein the interconnecting material (26) is completely activated via a selected one of initiating a self-hardening process by which the interconnecting material (26) organically hardens into its completely activated condition and subjecting the interconnecting material (26) to an exterior, non-organic treatment to effect hardening of the interconnecting material (26) into its completely activated condition.

21. A method for producing a dental restoration according to claim 20, wherein the step of disposing the over structure (24) onto the interconnecting material (26) includes disposing an over structure (24) onto the interconnecting material (26) having an inner contour which is compatibly configured with respect to the outer

contour of the base structure (16) such that the interconnecting material (26), as the over structure (24) is disposed onto the interconnecting material (26), extends into and fills the interspatial area between the base structure (16) and the over structure (24) in a manner by which the interconnecting material (26) assumes a substantially uniform thickness in the interspatial area between the base structure (16) and the over structure (24).

22. A method for producing a dental restoration according to claim 20, wherein the step of disposing the over structure (24) onto the interconnecting material (26) includes disposing the over structure (24) onto the interconnecting material (26) by pressing the over structure (24) onto the not yet completely activated interconnecting material (26).

23. A method for producing a dental restoration according to claim 20, wherein the step of completely activating the interconnecting material (26) into its completely activated condition includes subjecting the interconnecting material (26) to an exterior, non-organic treatment to effect hardening of the interconnecting material (26) into its completely activated condition, wherein such treatment is in the form of at least one of irradiating with light, heating, and subjecting the interconnecting material (26) to pressure.

24. A method for producing a dental restoration according to claim 20 and further comprising the step of applying an opaque-appearing material over at least a portion of the base structure (16) prior to the step of providing the interconnecting material (26) on the base structure (16).

25. A method for producing a dental restoration according to claim 20 and further comprising the step of evaluating the prospective bite situation which will exist between the base structure (16) and the over structure (24) in their installed positions, the step of evaluating including evaluating the prospective bite situation before the interconnecting material (26) has been activated into its completely activated

condition and, preferably, manipulating the base structure (16) and the over structure (24) relative to one another in an evaluation device that is, preferably, an articulator.

26. A method for producing a dental restoration according to claim 20, wherein the over structure (24) partially covers the base structure (16) such that a portion of the base structure (16) is uncovered and further comprising the step of covering the uncovered portion of the base structure (16) with at least one of free lying interconnecting material (26) which is exterior of the region at which the interconnecting material (26) interconnects the base structure (16) and the over structure (24) and a covering material (40).

27. A method for producing a dental restoration according to claim 20 and further comprising the step of placing the assembled over structure (24) and base structure (16) into an installed position on a selected one of a tooth stump of a tooth of the dental patient, a peg supported by a jaw of the dental patient, and an attachment element operable to be secured to neighboring tooth structure adjacent to the location at which the dental restoration is to be mounted.

28. A method for producing a dental restoration according to claim 22, wherein the step of pressing the over structure (24) onto the not yet completely activated interconnecting material (26) results in a spillover of interconnecting material (26) exteriorly of the interspatial area between the over structure (24) and the base structure (16) and further comprising the step of removing the spillover of interconnecting material (26) before the step of completely activating the interconnecting material (26) into its completely activated condition.

29. A method for producing a dental restoration according to claim 22, wherein the step of pressing the over structure (24) onto the not yet completely activated interconnecting material (26) results in a spillover of interconnecting material (26) exteriorly of the interspatial area between the over structure (24) and the base

structure (16) and further comprising the step of removing the spillover of interconnecting material (26) after the step of completely activating the interconnecting material (26) into its completely activated condition.